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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 7: Operational Systems Development</i>					R-1 Program Element (Number/Name) PE 0607313A / <i>Electronic Warfare Development</i>							
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	11.417	6.389	5.559	-	5.559	5.565	5.623	5.687	5.743	0.000	45.983
CE2: <i>Prophet</i>	-	11.417	6.389	5.559	-	5.559	5.565	5.623	5.687	5.743	0.000	45.983

A. Mission Description and Budget Item Justification

This Program Element encompasses operational system development for tactical Electronic Warfare (EW) terrestrial (ground) employment applications. The systems under this program provide the Army with the capability to detect, identify, locate, collect/process, report, and engage (disrupt, degrade or deny) hostile forces to prevent their effective use of communications & non-communications networks, counter-mortar/counter-battery radars, surveillance radars, electronically fused munitions and other enemy threats using the Electro-Magnetic Spectrum (EMS). Prophet enables integration, interoperability and force modernization with emerging capabilities in support of Multi-Domain Task Forces.

Fiscal Year (FY) 2025 funding in the amount of \$5.559 million funds the Prophet Enhanced efforts (Project CE2). Project CE2 supports the Prophet Enhanced Program of Record, the Army's current Terrestrial Signals Intelligence (SIGINT) system. Funding provides for development of relevancy efforts for state-of-the-art SIGINT exploitation to pace near peer and emerging enemy threat signals as well as engineering to mitigate component obsolescence. The primary mission of the Prophet Enhanced effort is to provide 24-hour Situation Development and Information Superiority to the supported maneuver brigade enabling the most effective engagement of enemy forces. Prophet Enhanced provides a modular, scalable, open architecture-based system solution optimized for ease of use in a variety of configurations.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	6.432	6.389	5.689	-	5.689
Current President's Budget	11.417	6.389	5.559	-	5.559
Total Adjustments	4.985	0.000	-0.130	-	-0.130
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	4.985	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	-0.130	-	-0.130

Change Summary Explanation

Fiscal Year (FY) 2025 Decrease of \$0.130 million due to gained efficiencies in collaboration with cross portfolio software development and reduced support costs.

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Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0607313A / <i>Electronic Warfare Development</i>	Project (Number/Name) CE2 / <i>Prophet</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
CE2: <i>Prophet</i>	-	11.417	6.389	5.559	-	5.559	5.565	5.623	5.687	5.743	0.000	45.983
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Project CE2 supports the Prophet Enhanced Program of Record, the Army's current fielded terrestrial Signals Intelligence (SIGINT)/Electronic Warfare Support system. Funds provide for development and integration of Signals of Interest (SOI); Technical Insertion engineering for Next Generation Signals; state-of-the-art SIGINT exploitation techniques to increase the capabilities of Prophet Enhanced; enabling the system to pace near peer; and emerging enemy threat signals. Additionally, funds provide for efforts to include engineering, development and testing to mitigate component obsolescence. The Prophet Enhanced is the tactical commander's organic ground-based SIGINT/Electronic Warfare Support system. Its primary mission is to provide 24-hour Situation Development and Information Superiority to the supported maneuver brigade to enable the most effective engagement of enemy forces. Prophet Enhanced provides a modular, scalable, open architecture-based system solution optimized for ease of use in a variety of configurations. It also incorporates product modification, integration, evaluation and demonstration events of equipment for rapid integration of Technical Insertions (TI) and product development to ensure operational relevance.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2023	FY 2024	FY 2025
<p>Title: Program Management</p> <p>Description: Engineering and technical oversight of the development of next generation signals.</p> <p>FY 2024 Plans: Funds will provide for continued matrix and contractor system engineering and program management support for the Prophet program.</p> <p>FY 2025 Plans: FY 2025 Funds will provide for continued matrix and contractor system engineering support for the Prophet program.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding change is consistent with the planned lifecycle of this effort.</p>	1.336	0.682	0.520
<p>Title: Signal of Interest upgrades</p> <p>Description: The Signal Environment that Prophet Systems exploit is constantly contested with evolving threats. This environment creates gaps in Prophet's ability to collect and exploit these signals. Prophet must integrate the latest emerging Intelligence Community (IC), commercial solutions and capabilities from other sources to remain relevant against these numerous, key, and high-priority emerging threats.</p> <p>FY 2024 Plans:</p>	3.285	2.854	2.853

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>Continuing development and integration of Next Generation SIGINT capabilities into the Prophet SIGINT Software (PS2). The new signals and libraries of signals address key exploitation gaps in the Prophet system's ability to collect against key tactical near peer signals and emerging threats.</p> <p>FY 2025 Plans: FY 2025 will Continue development and integration of Next Generation SIGINT capabilities into the Prophet SIGINT Software (PS2). The new signals and libraries of signals address key exploitation gaps in the Prophet system's ability to collect against key tactical near peer signals and emerging threats.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Funding change is consistent with the planned lifecycle of this effort.</p>			
<p>Title: Componnet Obsolescence Engineering</p> <p>Description: Due to the highly technical nature of Prophet Enhanced, over the course of time, many components on the system are no longer produced or supported, which necessitates non-recurring engineering (NRE) to integrate, incorporate, test new and replacement parts.</p> <p>FY 2024 Plans: Continuing obsolescence engineering for components on the Prophet Enhanced systems.</p> <p>FY 2025 Plans: FY 2025 will Continue obsolescence engineering and conduct customer testing for components on the Prophet Enhanced systems.</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Fiscal Year (FY) 2025 funding decrease of \$0.667 million due to gained efficiencies from obsolescence engineering. Future FY funding levels anticipated to remain relatively stable.</p>	6.796	2.853	2.186
Accomplishments/Planned Programs Subtotals	11.417	6.389	5.559

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u> <u>Base</u>	<u>FY 2025</u> <u>OCO</u>	<u>FY 2025</u> <u>Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• BZ9751: <i>SPECIAL PURPOSE SYSTEMS</i>	9.224	4.169	6.541	-	6.541	6.568	6.572	6.577	6.643	0.000	46.294
Remarks											

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D. Acquisition Strategy

The Prophet Research and Development (R&D) Acquisition Strategy is structured to maintain operational relevancy of Prophet Enhanced systems in a dynamic threat environment while reducing risk and streamlining business and engineering processes. Developing a portfolio wide system agnostic common software baseline which provides a reduction in costs from multiple software efforts and provides increased threat detection capabilities and reduces developmental risks from having multiple disparate software activities. Contracting activities are to maintain SIGINT relevance and complete Technical Insertion (TI) to Prophet Enhanced systems to pursue the latest Signals of Interest and design against obsolescence. The Technical Insertion (TI) contract supports R&D and other developmental work.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army **Date:** March 2024

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Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Program Management	C/Various	PM Electronic Warfare & Cyber : APG, MD	0.365	1.336	Nov 2022	0.682	Nov 2023	0.520	Nov 2024	-		0.520	0.000	2.903	-
Subtotal			0.365	1.336		0.682		0.520		-		0.520	0.000	2.903	N/A

Remarks
Efforts will be accomplished via a combination of Matrixed Government Support as well as competitive contract Systems Engineering and Technical Assistance (SETA) award.

Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Signal of Interest Upgrades	SS/CPFF	GD Mission Systems and Various Supporting Organizations : Scottsdale, AZ	2.654	3.285	Jul 2023	2.854	Dec 2023	2.853	Mar 2025	-		2.853	0.000	11.646	-
Component Obsolescence Engineering	SS/CPFF	GD Mission Systems and Various Supporting Organizations : Scottsdale, AZ	2.654	6.796	Aug 2023	2.853	Dec 2023	2.186	Mar 2025	-		2.186	0.000	14.489	-
Subtotal			5.308	10.081		5.707		5.039		-		5.039	0.000	26.135	N/A

Remarks
Efforts will be accomplished via sole sourced contract to ensure systems remain relevant against emerging enemy threat signals and that any components of the system that become obsolete or are no longer produced can be re-engineered. FY23 Signals of Interest and Obsolescence efforts were awarded 4th QTR FY 23. The FY24 efforts are on track to be awarded March 2024.

	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	5.673	11.417	6.389	5.559	-	5.559	0.000	29.038	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army			Date: March 2024		
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Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Prophet Enhanced Technical Insertion																												
Customer Testing (2025)																												
Customer Testing (2027)																												
Customer Testing (2029)																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Prophet Enhanced Technical Insertion	1	2020	4	2029
Customer Testing (2025)	2	2025	3	2025
Customer Testing (2027)	2	2027	3	2027
Customer Testing (2029)	2	2029	3	2029